

## TRANSMITTAL LETTER

OCT 13 2004

Attorney Docket Number:  
PA17-07V06Application Number:  
09/680,341Filing Date:  
08/01/2001Examiner:  
Sang H. NguyenGroup Art Unit:  
2877

Applicant: Choi et al.

Invention: METHODS FOR HIGH-PRECISION GAP ORIENTATION SENSING BETWEEN A TRANSPARENT TEMPLATE AND SUBSTRATE FOR IMPRINT LITHOGRAPHY

## TO THE COMMISSIONER FOR PATENTS:

Transmitted herewith are the following documents in the above-identified application. The fee has been calculated as shown below.

- Amendment ( page(s)),
- Information Disclosure Statement (5 page(s)), including Transmittal (2 page(s)), Form PTO/SB/08A (3 page(s)), and
- Copies of (3) cited references;
- Information Disclosure Statement (9 page(s)), including Transmittal (2 page(s)), Form PTO/SB/08A (7 page(s)), and
- Copies of (19) cited references;
- Return Receipt Postcard

## CLAIMS AS AMENDED

	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	NO. OF EXTRA CLAIMS PRESENT	RATE	ADDITIONAL FEE
TOTAL CLAIMS		MINUS			\$18.00	\$ n/a
INDEP. CLAIMS		MINUS			\$86.00	\$n/a
Information Disclosure Fee			2@\$180.00	\$ 360.00		
Petition for Extension of Time				\$		
TOTAL FEE				\$ 360.00		

- Applicant claims small entity status under 37 CFR 1.27
- A check in the amount of \$ is attached.
- Charge \$360.00 to deposit account number 502650 and credit any overpayment or debit any underpayment to the same deposit account 502650.
- No additional fee is required, but if any fees are incurred regarding this matter kindly charge deposit account number 502650.

10/9/04  
date

Kenneth C. Brooks

Reg. No. 38393

Legal Department

Molecular Imprints, Inc.

P.O. Box 81536

Austin, Texas 78708-1536

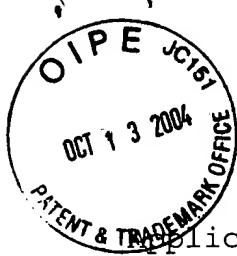
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10-8-04  
Katrina Prati



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Choi et al.

App. No.: 09/920,341 GPAU: 2877

Filing Date: 08/01/2001 Examiner: Sang H. Nguyen

Dkt. No.: PA17-07V06 Conf. No.: 4146

For: METHODS FOR HIGH-PRECISION GAP ORIENTATION SENSING BETWEEN  
A TRANSPARENT TEMPLATE AND SUBSTRATE FOR IMPRINT  
LITHOGRAPHY

INFORMATION DISCLOSURE STATEMENT TRANSMITTAL

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

The following information is submitted in compliance with  
Applicants' duty of disclosure and pursuant to 37 C.F.R. § 1.56,  
§ 1.97 and § 1.98. The undersigned brings the patents,  
publications, applications or other information identified in the  
attached:

Form(s) PTO/SB/08A and/or PTO/SB/08B or PTO/1449  
 Other: Other: Invitation to Pay Additional Fees and  
Communication Relating to the Results of the Partial  
International Search dated August 10, 2004  
to the Examiner's attention in the above-identified application.  
It is respectfully requested that the cited information be  
expressly considered during the prosecution of this application,  
and the references be made of record therein and appear among the  
"references cited" on any patent to issue therefrom.

FEES DUE

This Information Disclosure Statement is being filed:

within three months of the filing date of a national  
application or within three months of entry of the

10/15/2004 AWONDAF1 00000009 502650 09920341

01 FC:1806 180.00 DA

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national stage as set forth in § 1.491 in an international application. Therefore, no fee is required.

- before the mailing date of a first Office action on the merits or before the mailing date of a first Office action after the filing of a request for continued examination under § 1.114. Therefore, no fee is believed required.
- during the period specified in § 1.97(c). Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application not more than three months prior to the filing of this Information Disclosure Statement.
- during the period specified in § 1.97(c). Accordingly, the fee set forth in § 1.17(p) is required and provided as shown on the attached Fee Transmittal.
- during the period specified in § 1.97(d). Accordingly, the fee set forth in § 1.17(p) is required and provided as shown on the attached Fee Transmittal. Additionally, each item of information contained in the information disclosure statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement.

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Signed: Katrina Prati  
Typed Name: Katrina Prati  
Date: 10 - 8 - 04

Respectfully Submitted,



Kenneth C. Brooks,  
Reg. No. 38,393  
Legal Department  
Molecular Imprints, Inc.  
P.O. Box 81536  
Austin, TX 78758-1535  
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(512) 339-3799 (fax)

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PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

Approved for use through 10/31/2002. GPO 2001-000  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/PTO

OCT 13 2004

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

1

of

3

***Complete if Known***

Application Number	09/920,341
Filing Date	08/01/2001
First Named Inventor	Choi et al.
Group Art Unit	2877
Examiner Name	Nguyen, Sang H.
Attorney Docket Number	PA17-07V06

## U.S. PATENT DOCUMENTS

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 2 of 3

**Complete if Known**

<b>Application Number</b>	09/920,341
<b>Filing Date</b>	08/01/2001
<b>First Named Inventor</b>	Choi et al.
Group Art Unit	2877
Examiner Name	Nguyen, Sang H.
Attorney Docket Number	PA17-07V06

## FOREIGN PATENT DOCUMENTS

Examiner Signature		Date Considered	
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**Substitute for form 1449B/PTC**

OCT 13 2004

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 3 of 3

<i>Complete if Known</i>	
<b>Application Number</b>	09/920,341
<b>Filing Date</b>	08/01/2001
<b>First Named Inventor</b>	Choi et al.
<b>Group Art Unit</b>	2877
<b>Examiner Name</b>	Nguyen, Sang H.
<b>Attorney Docket Number</b>	PA17-07V06

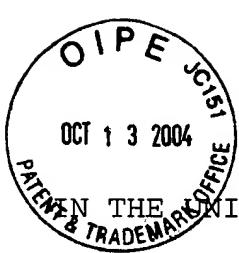
#### OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Signature	.	Date Considered	
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Choi et al.

App. No.: 09/920,341 GPAU: 2877

Filing Date: 08/01/2001 Examiner: Sang H.Nguyen

Dkt. No.: PA17-07V06 Conf. No.: 4146

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INFORMATION DISCLOSURE STATEMENT TRANSMITTAL

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

The following information is submitted in compliance with Applicants' duty of disclosure and pursuant to 37 C.F.R. § 1.56, § 1.97 and § 1.98. The undersigned brings the patents, publications, applications or other information identified in the attached:

Form(s) PTO/SB/08A and/or PTO/SB/08B or PTO/1449  
 Other:

to the Examiner's attention in the above-identified application. It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

FEES DUE

This Information Disclosure Statement is being filed:

within three months of the filing date of a national application or within three months of entry of the national stage as set forth in § 1.491 in an international application. Therefore, no fee is required.

- before the mailing date of a first Office action on the merits or before the mailing date of a first Office action after the filing of a request for continued examination under § 1.114. Therefore, no fee is believed required.
- during the period specified in § 1.97(c). Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application not more than three months prior to the filing of this Information Disclosure Statement.
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- during the period specified in § 1.97(d). Accordingly, the fee set forth in § 1.17(p) is required and provided as shown on the attached Fee Transmittal.  
Additionally, no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in § 1.56(c) more than three months prior to the filing of this information disclosure statement.

CERTIFICATE OF TRANSMISSION  
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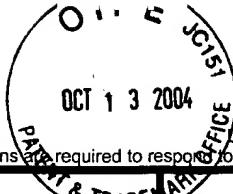
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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

1

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## Complete if Known

Application Number	09/920,341
Filing Date	08/01/2002
First Named Inventor	Choi et al.
Group Art Unit	2877
Examiner Name	Nguyen, Sang H.
Attorney Docket Number	PA17-07V06

## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
E1	4,070,116			Frosch et al.	01-24-1978	
E2	4,600,309			Fay	07-15-1986	
E3	4,848,911			Uchida et al.	07-18-1989	
E4	5,074,667			Miyatake	12-24-1991	
E5	5,148,036			Matsugu et al.	09-15-1992	
E6	5,148,037			Suda et al.	09-15-1992	
E7	5,151,754			Ishibashi et al.	09-29-1992	
E8	5,179,863			Uchida et al.	01-19-1993	
E9	5,376,810			Hoenk et al.	12-27-1994	
E10	5,424,549			Feldman	06-13-1995	
E11	5,670,415			Rust	09-23-1997	
E12	5,743,998			Park	04-28-1998	
E13	5,855,686			Rust	01-05-1999	
E14	5,948,219			Rohner	09-07-1999	
E15	6,035,805			Rust	03-14-2000	
E16	6,150,680			Eastman et al.	11-21-2000	
E17	6,326,627	B1		Putvinski et al.	12-04-2001	
E18	2002/0132482	A1		Chou	09-19-2002	
E19	2002/0167117	A1		Chou	11-14-2002	
E20	6,482,742	B1		Chou	11-19-2002	
E21	6,534,418	B1		Plat et al.	03-18-2003	
E22	6,541,360	B1		Plat et al.	04-01-2003	
E23	2003/0081193	A1		White et al.	05-01-2003	
E24	2003/0080471	A1		Chou	05-01-2003	
E25	2004/0036201	A1		Chou et al.	02-26-2004	
E26	5,468,542			Crouch	11-21-1995	
E27	5,366,851			Novembre	11-22-1994	
E28	5,362,606			Hartney et al.	11-08-1994	
E29	5,324,683			Fitch et al.	06-28-1994	
E30	5,212,147			Sheats	05-18-1993	
E31	5,458,520			DeMercurio et al.	10-17-1995	
E32	5,453,157			Jeng	09-26-1995	
E33	5,439,766			Day et al.	08-08-1995	
E34	5,431,777			Austin et al.	07-11-1995	
Examiner Signature				Date Considered		

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

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Sheet

2

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## Complete if Known

Application Number 09/920,341

Filing Date 08/01/2001

First Named Inventor Choi et al.

Group Art Unit 2877

Examiner Name Nguyen, Sang H.

Attorney Docket Number PA17-07V06

## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
E35	5,422,295			Choi et al.	06-06-1995	
E36	5,421,981			Leader et al.	06-06-1995	
E37	5,417,802			Obeng	05-23-1995	
E38	5,380,474			Rye et al.	01-10-1995	
E39	5,374,454			Bickford et al.	12-20-1994	
E40	5,330,881			Sidman et al.	07-19-1994	
E41	5,328,810			Lowrey et al.	07-12-1994	
E42	5,318,870			Hartney	06-07-1994	
E43	5,244,818			Jokerst et al.	09-14-1993	
E44	5,242,711			DeNatale et al.	09-07-1993	
E45	5,240,878			Fitzsimmons et al.	08-31-1993	
E46	5,108,875			Thackeray et al.	04-28-1992	
E47	5,053,318			Gulla et al.	10-01-1991	
E48	4,964,945			Calhoun	10-23-1990	
E49	4,908,298			Hefferon et al.	03-13-1990	
E50	4,921,778			Thackeray et al.	05-01-1990	
E51	4,919,748			Bredbenner et al.	04-24-1990	
E52	3,783,520			King	01-08-1974	
E53	6,776,094	B1		Whitesides et al.	08-17-2004	
E54	4,201,800			Alcorn et al.	05-06-1980	
E55	4,426,247			Tamamura et al.	01-17-1984	
E56	4,507,331			Hiraoka	03-26-1985	
E57	4,552,833			Ito et al.	11-12-1985	
E58	4,657,845			Frechet et al.	04-14-1987	
E59	4,692,205			Sachdev et al.	09-08-1987	
E60	4,707,218			Giamarco et al.	11-17-1987	
E61	4,737,425			Lin et al.	04-12-1988	
E62	4,808,511			Holmes	02-28-1989	
E63	4,826,943			Ito et al.	05-02-1989	
E64	4,857,477			Kanamori	08-15-1989	
E65	4,891,303			Garza et al.	01-02-1990	
E66	4,931,351			McColgin et al.	06-05-1990	
E67	4,976,818			Hashimoto et al.	12-11-1990	
E68	4,980,316			Huebner	12-25-1990	
Examiner Signature				Date Considered		

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Attorney Docket Number PA17-07V06

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		Number	Kind Code <sup>2</sup> (if known)			
	E69	4,999,280		Hiraoka	03-12-1991	
	E70	5,071,694		Uekita et al.	12-10-1991	
	E71	5,169,494		Hashimoto et al.	12-08-1992	
	E72	5,173,393		Sezi et al.	12-22-1992	
	E73	5,198,326		Hashimoto et al.	03-30-1993	
	E74	5,234,793		Sebald et al.	08-10-1993	
	E75	5,314,772		Kozicki et al.	05-24-1994	
	E76	5,527,662		Hashimoto et al.	06-18-1996	
	E77	5,654,238		Cronin et al.	08-05-1997	
	E78	5,700,626		Lee et al.	12-23-1997	
	E79	5,736,424		Prybyla et al.	04-07-1998	
	E80	5,895,263		Carter et al.	04-20-1999	
	E81	5,907,782		Wu	05-25-1999	
	E82	5,926,690		Toprac et al.	07-20-1999	
	E83	5,948,570		Kornblit et al.	09-07-1999	
	E84	6,033,977		Gutsche et al.	03-07-2000	
	E85	6,096,655		Lee et al.	08-01-2000	
	E86	6,150,231		Muller et al.	11-21-2000	
	E87	6,245,581	B1	Bonser et al.	06-12-2001	
	E88	6,274,294	B1	Hines	08-14-2001	
	E89	6,329,256	B1	Ibok	12-11-2001	
	E90	6,383,928	B1	Eissa	05-07-2002	
	E91	6,387,783	B1	Furukawa et al.	05-14-2002	
	E92	6,388,253	B1	Su	05-14-2002	
	E93	6,391,798	B1	DeFelice et al.	05-21-2002	
	E94	6,455,411	B1	Jiang et al.	09-24-2002	
	E95	6,489,068	B1	Kye	12-03-2002	
	E96	6,514,672	B2	Young et al.	02-04-2003	
	E97	6,561,706	B2	Singh et al.	05-13-2003	
	E98	6,565,928	B2	Sakamoto et al.	05-20-2003	
	E99	2003/011368	A1	Mancini et al.	06-19-2003	
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	E101	6,632,742	B2	Yang et al.	10-14-2003	
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<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

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PTO/SB/08A (08-00)

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OCT 13 2004

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

*(use as many sheets as necessary)*

## Sheet

4

of

7

***Complete if Known***

<b>Application Number</b>	09/920,341
<b>Filing Date</b>	08/01/2001
<b>First Named Inventor</b>	Choi et al.
<b>Group Art Unit</b>	2877
<b>Examiner Name</b>	Nguyen, Sang H.
<b>Attorney Docket Number</b>	PA17-07V06

## U.S. PATENT DOCUMENTS

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Sheet 5 of 7

<i>Complete if Known</i>	
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<b>Filing Date</b>	08/01/2001
<b>First Named Inventor</b>	Choi et al.
Group Art Unit	2877
Examiner Name	Nguyen, Sang H.
Attorney Docket Number	PA17-07V06

## FOREIGN PATENT DOCUMENTS

Examiner Signature		Date Considered	
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Sheet

6

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7

## Complete if Known

Application Number	09/920,341
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First Named Inventor	Choi et al.
Group Art Unit	2877
Examiner Name	Nguyen, Sang H.

Attorney Docket Number PA17-07V06

## OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	E114	Abstract of Japanese Patent 63-138730	
	E115	Abstract of Japanese Patent 55-88332	
	E116	Abstract of Japanese Patent 57-7931	
	E117	Abstract of Japanese Patent 02-92603.	
	E118	Translation of Japanese Patent 02-92603.	
	E119	Abstract of Japanese Patent 02-24848.	
	E120	Translation of Japanese Patent 02-24848.	
	E121	HEIDARI et al., "Nanoimprint Lithography at the 6 in. Wafer Scale," Journal of Vacuum Science Technology, Nov/Dec 2000, pp. 3557-3560, vol. B, no. 18(6)/	
	E122	NERAC.COM Retro Search, "Reduction of Dimension of Contact Holes", August 31, 2004	
	E123	NERAC.COM Retro Search, "Trim Etching of Features Formed on an Organic Layer", September 2, 2004	
	E124	NERAC.COM Retro Search, "Multi-Layer Resists", September 2, 2004	

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Sheet 7 of 7

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